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Name:

*Ms. Estrada, Mr. Bielmeier, Mr. Tiénou-Gustafson*

Geometry, Period

Due Date: Wed, 3 Sep 2014

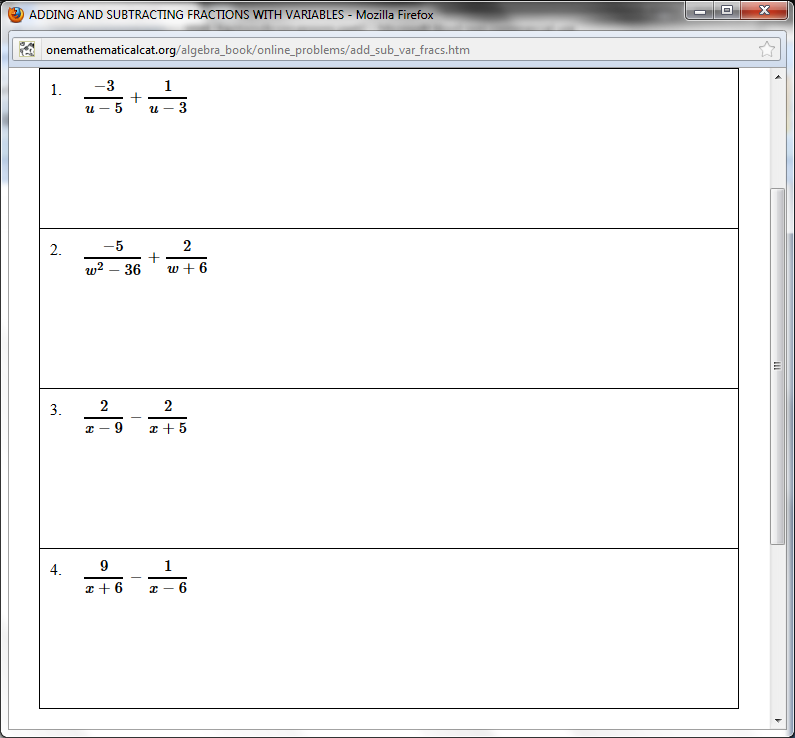
**Geometry**

**Homework**



1. **Fractions with Variables**

Combine into a single fraction. Leave the denominator in factored form.



5. Simplify

1. **Word Problems: Conversion & Changing the Subject**
2. Solve  for .
3. Solve  for .
4. Write  as a function of *s*.
5. Write  as a function of *x*.
6. In science, work is defined as using a force to move something a distance. The formula for work *W* (in joules) is *W = ,* where *F* is the force (in newtons) and *d* is the distance (in meters)*.*
7. Explain how to solve the formula for force.
8. Chantelle pushes a box 4.5 meters, doing 144 joules of work. What force does she use to push the box?
9. Chantelle then pushes the box 9 meters, twice as far as in part (b). She does the same amount of work as in part (b), 144 joules. What force does she use?
10. In general, if the distance an object is moved is doubled, but the amount of work done does not change, how does the amount of force used change?
11. Four consecutive odd numbers have an average of 8. What is the smallest number?
    1. Show your work using a number line.
    2. Show your work using an equation.
12. There are four children in Mrs. T-G’s family. Each one was born 4 years apart. When the sum of their ages was 64 years, how old was the youngest sibling?